



Kevin Rogers
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Wireless Systems Bureau





MICROWAVE REPLACEMENT 700 MHz DIGITAL SYSTEM

Arizona DPS Wireless Systems Bureau



WIRELESS BUREAU

Mission

To provide design, coordination, construction and maintenance services for statewide radio, voice and data telecommunication systems.

Goals

- To modernize obsolete radio, voice and data communication systems for the Department of Public Safety and other public safety agencies in Arizona.
- To support the development of a statewide interoperable public safety radio system.
- To provide efficient, cost effective telecommunication services to the Department of Public Safety and public safety agencies.



WIRELESS BUREAU

- DPS Telephone System statewide
- Department Cellular Phones
- Speed Radar Unit Repair
- ACJIS Backhaul to I.T. Bureau
- Land Mobile/Microwave Service



WIRELESS BUREAU

- 206 **Microwave Stations**
- 604 **Base Station**
- 930 **Mobile Data Computers**
- 5863 **Mobile Radios**
- 2607 **Portable Radios**
- 71 **Communication Towers**
- 52 **Communication Site Buildings**
- 51 **Emergency Power Generators**
- 26 **Dispatch Consoles**



MICROWAVE REPLACEMENT



The Department of Public Safety owns and operates a statewide microwave communications network.

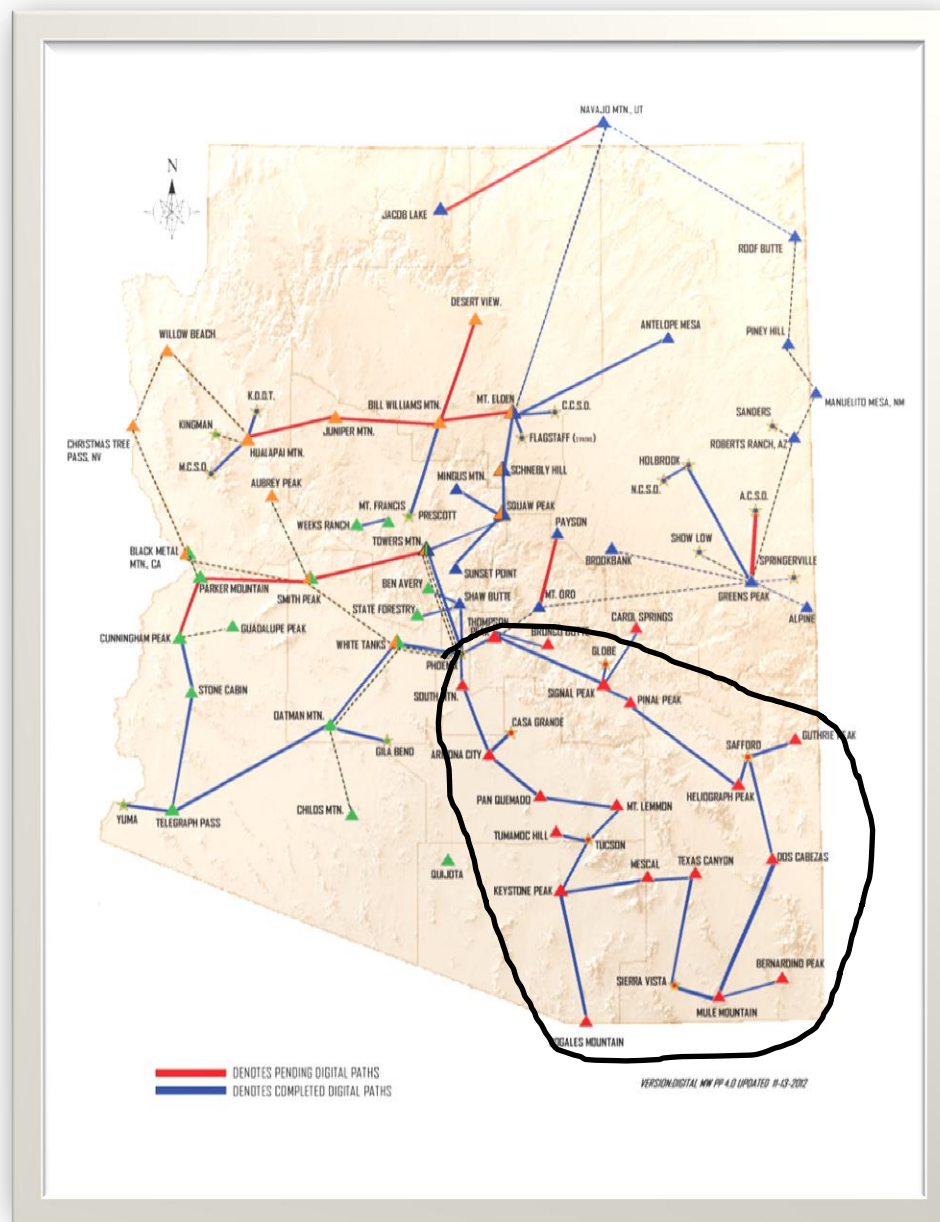
This network primarily supports voice and data communications for all State agencies.

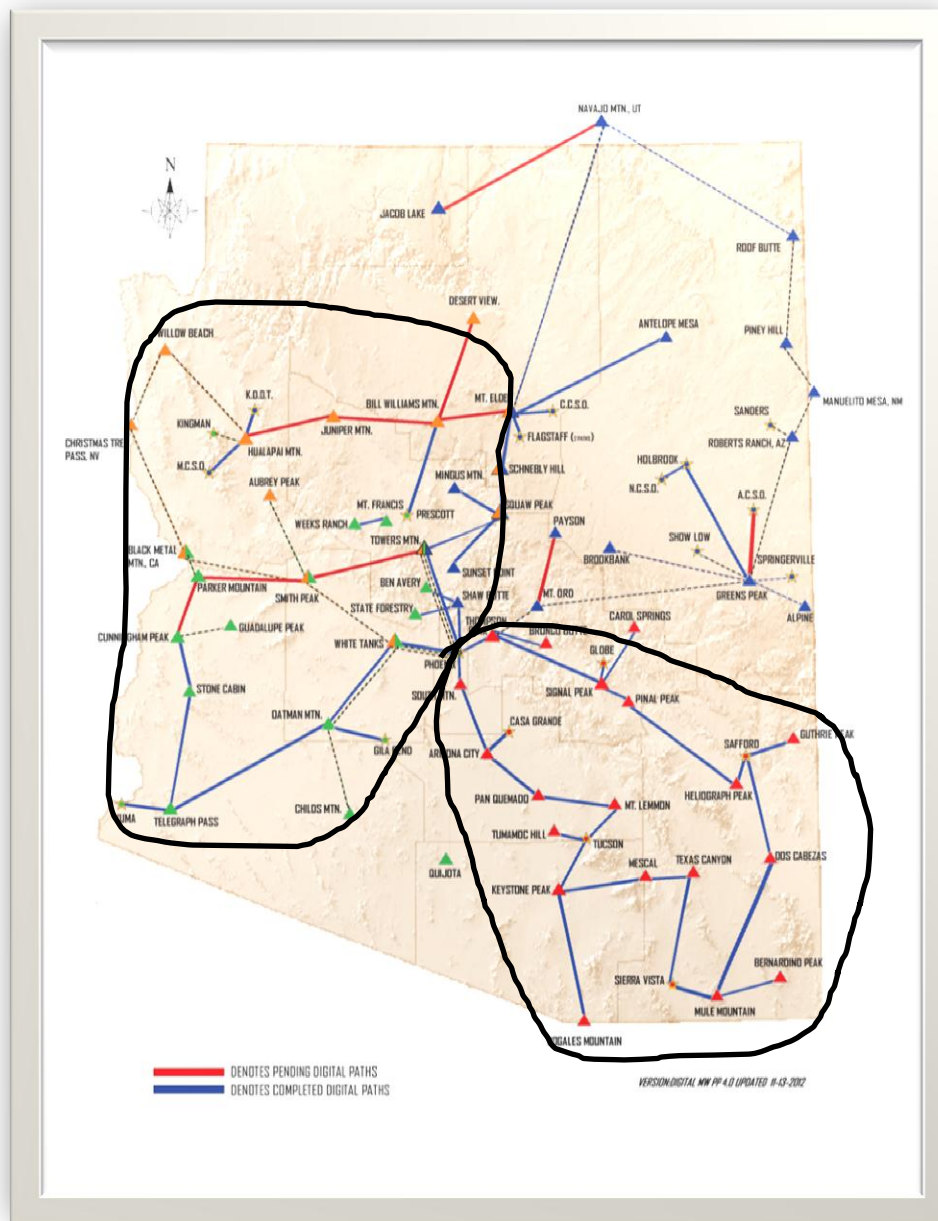
This network also supports Federal, County, Local and Tribal agencies.

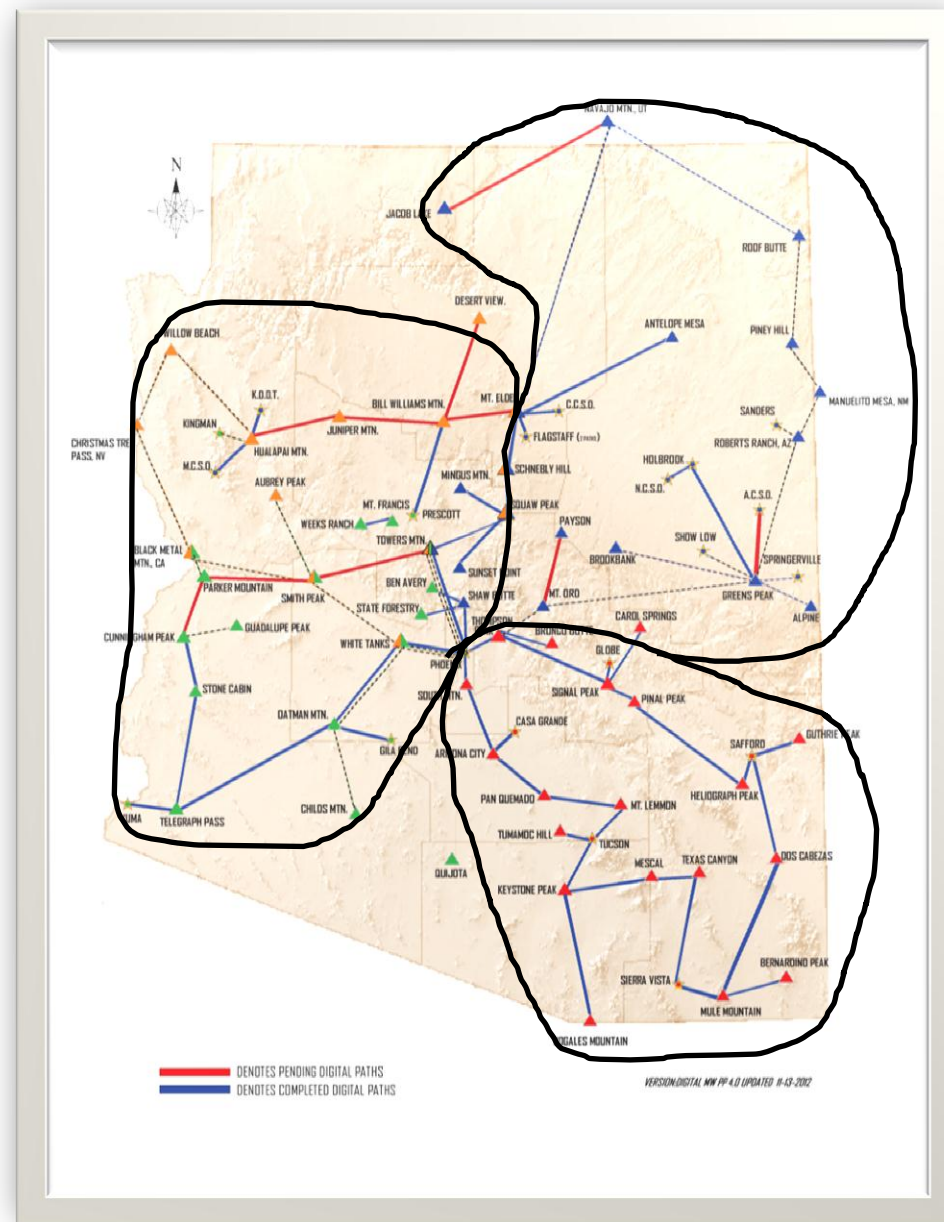
The network provides three main services:

- Radio Communications Backhaul.
- Remote Management of Radio Communications Equipment.
- Telephone and ACJIS Service's.









PARTNERSHIPS



AZDOHS

ARIZONA DEPARTMENT
OF HOMELAND SECURITY



Arizona DPS Wireless Systems Bureau

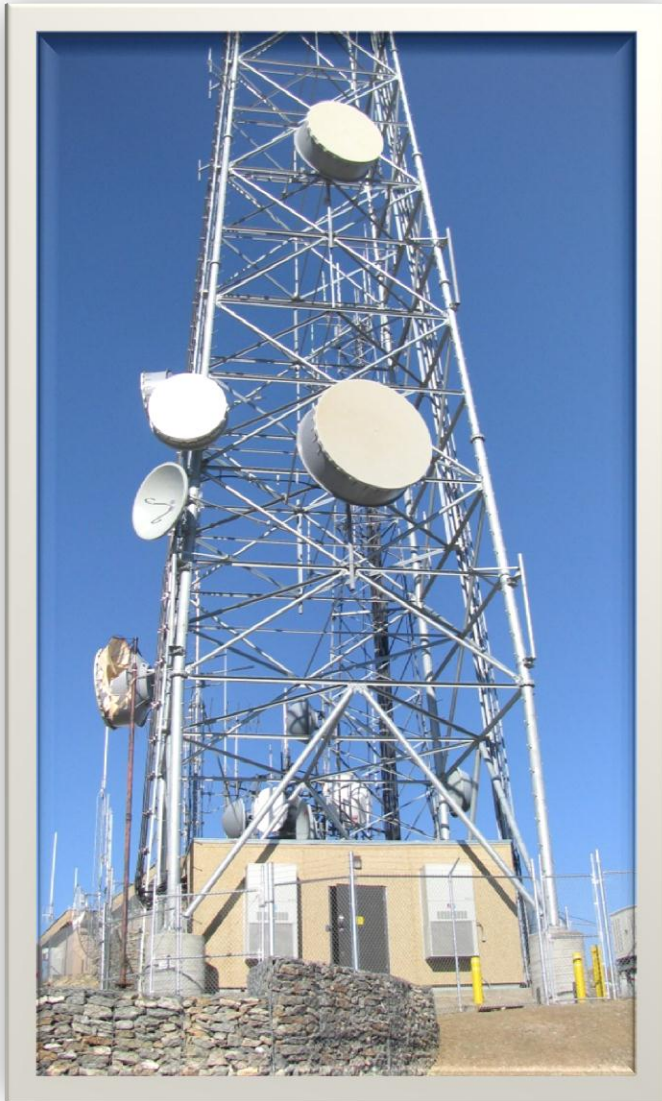
TOWERS MOUNTAIN



Arizona DPS Wireless Systems Bureau



THOMPSON PEAK





PARKER MOUNTAIN



SOUTH MT 1936



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700 MHz DIGITAL SYSTEM



THE TECHNOLOGY

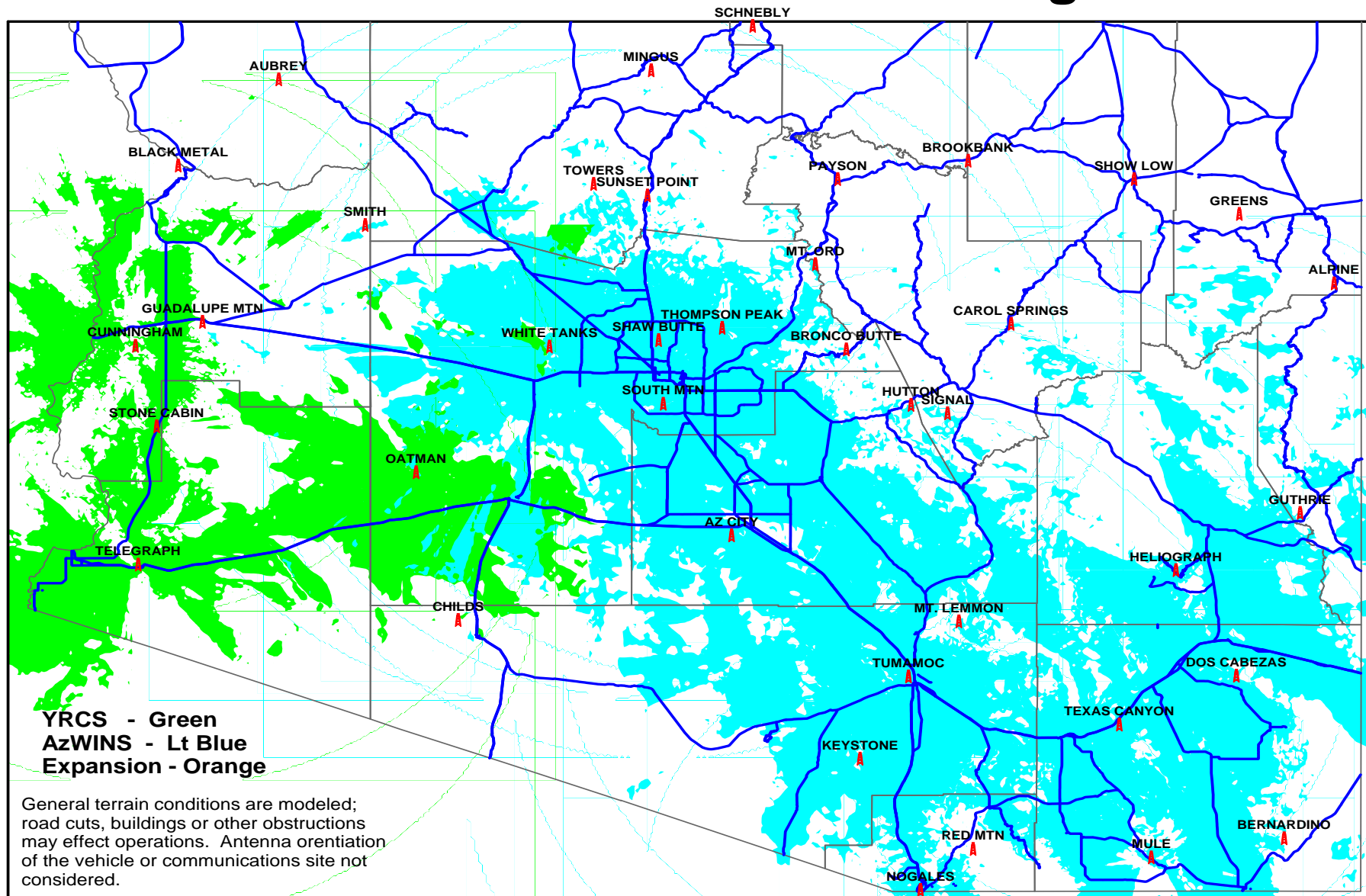
- Macro Corporation, 2004.
- Gartner Group 2005.
- Federal Engineering Inc., 2007.
- Recommended 700 MHz P25 statewide digital trunked communications system.
- PSCC/DPS approved technology standard on April 24, 2007.



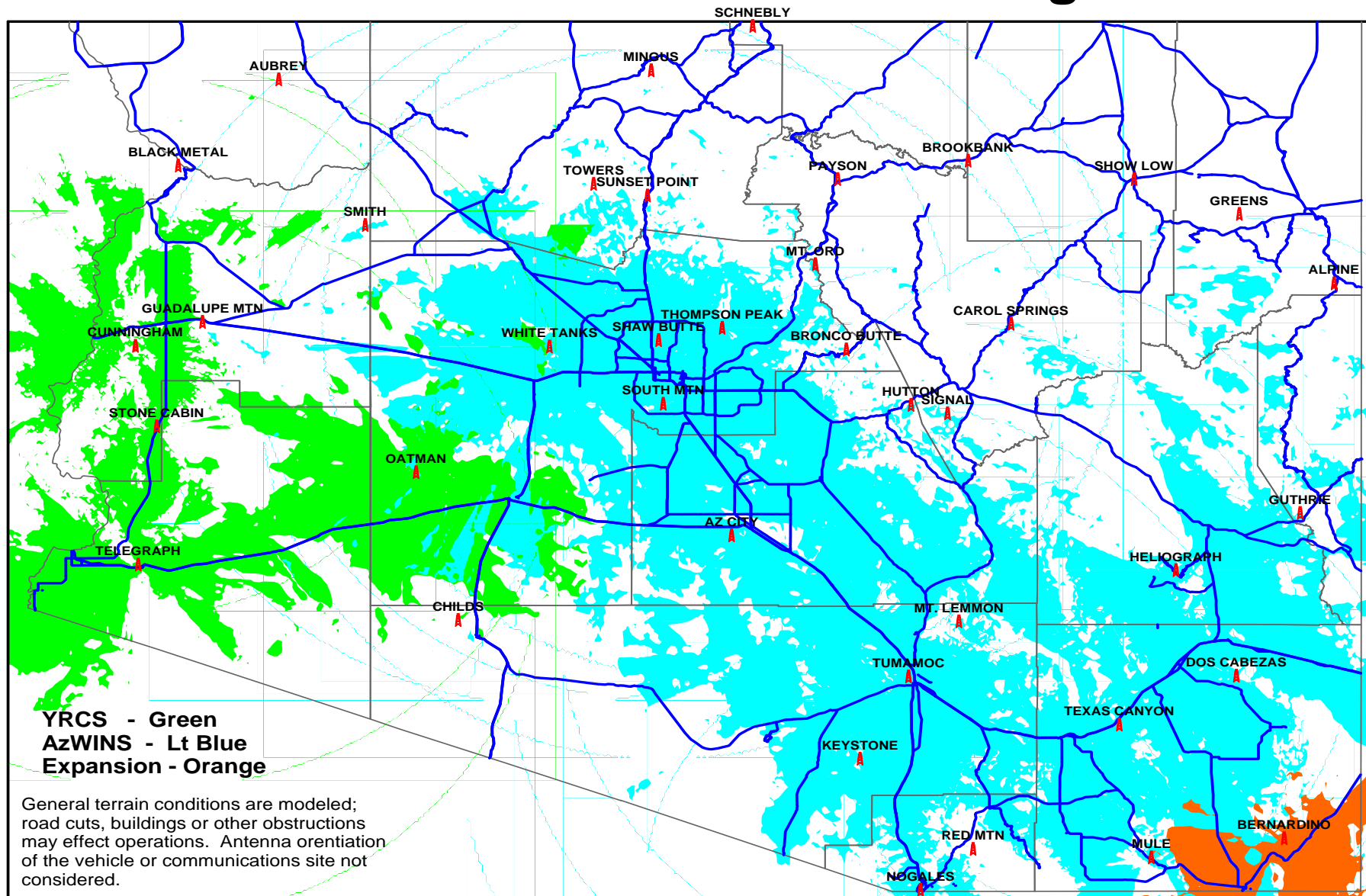
THE DIRECTION

- End of life ADOT 800 Mhz Trunk System.
- Leverage the use of an existing systems.
- Build upon previous work/projects.
- Provide the most coverage over large population area and meet FCC's first construction deadline.

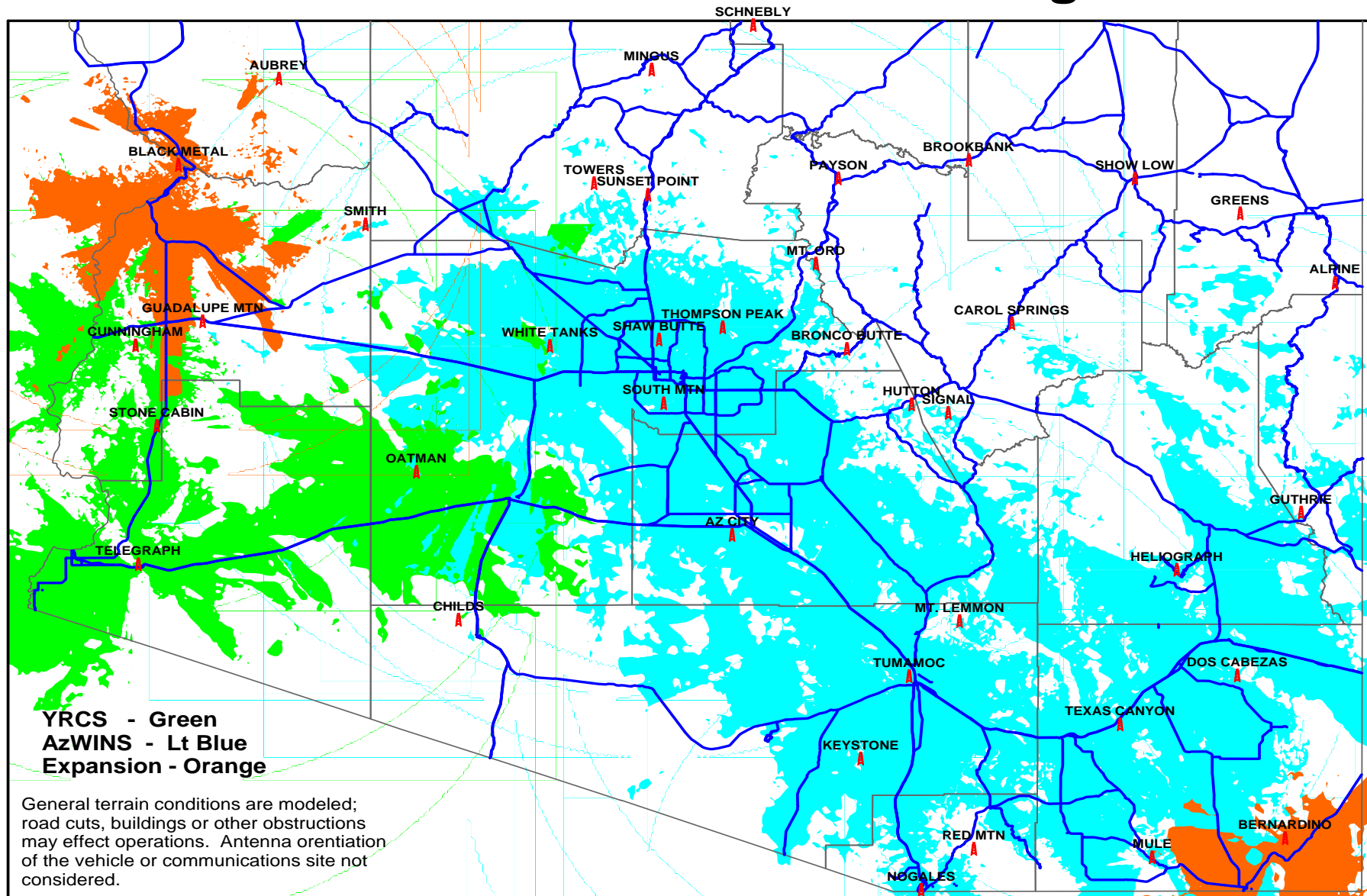
YRCS / AzWINS Radio Coverage



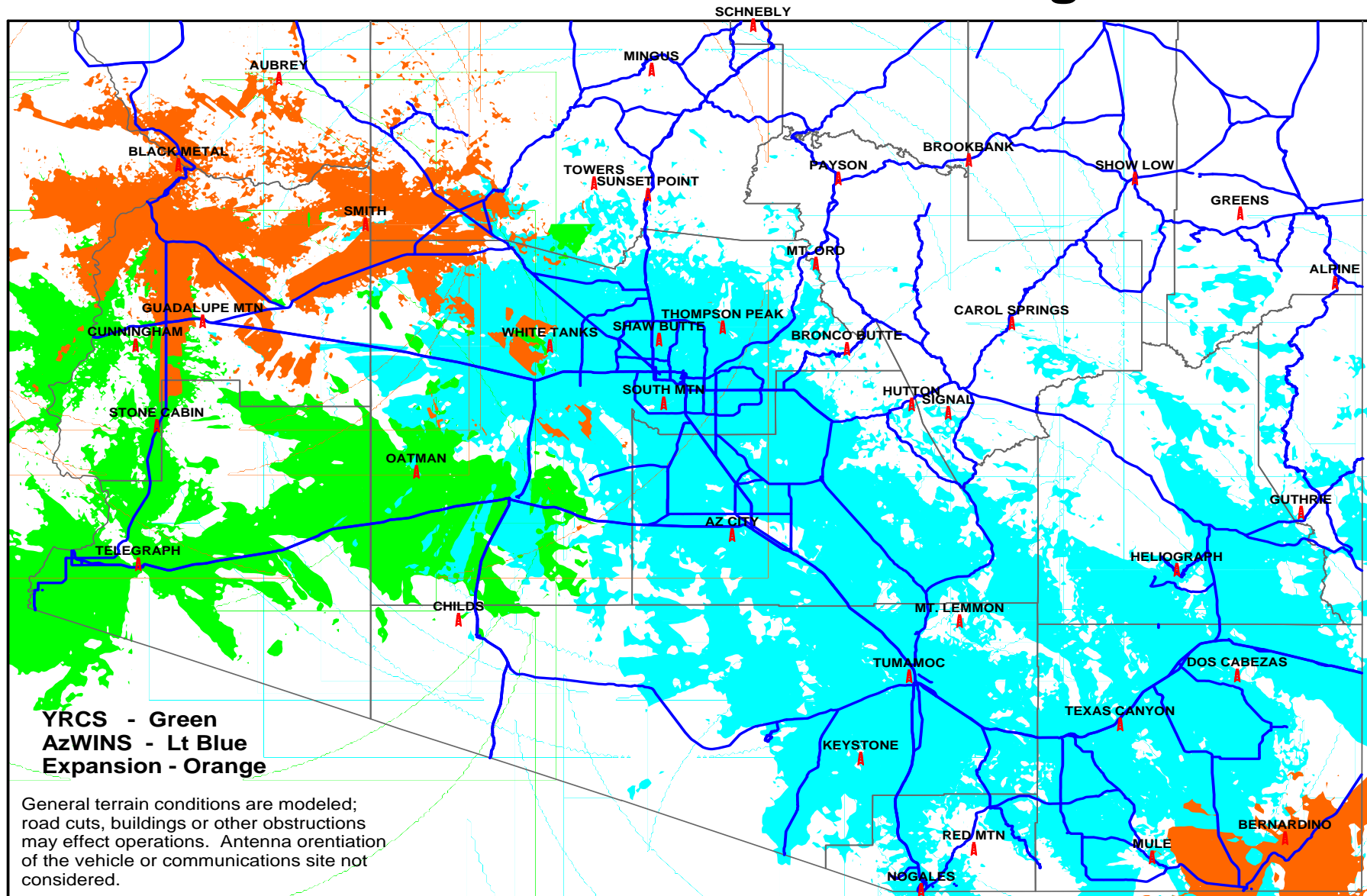
YRCS / AzWINS Radio Coverage



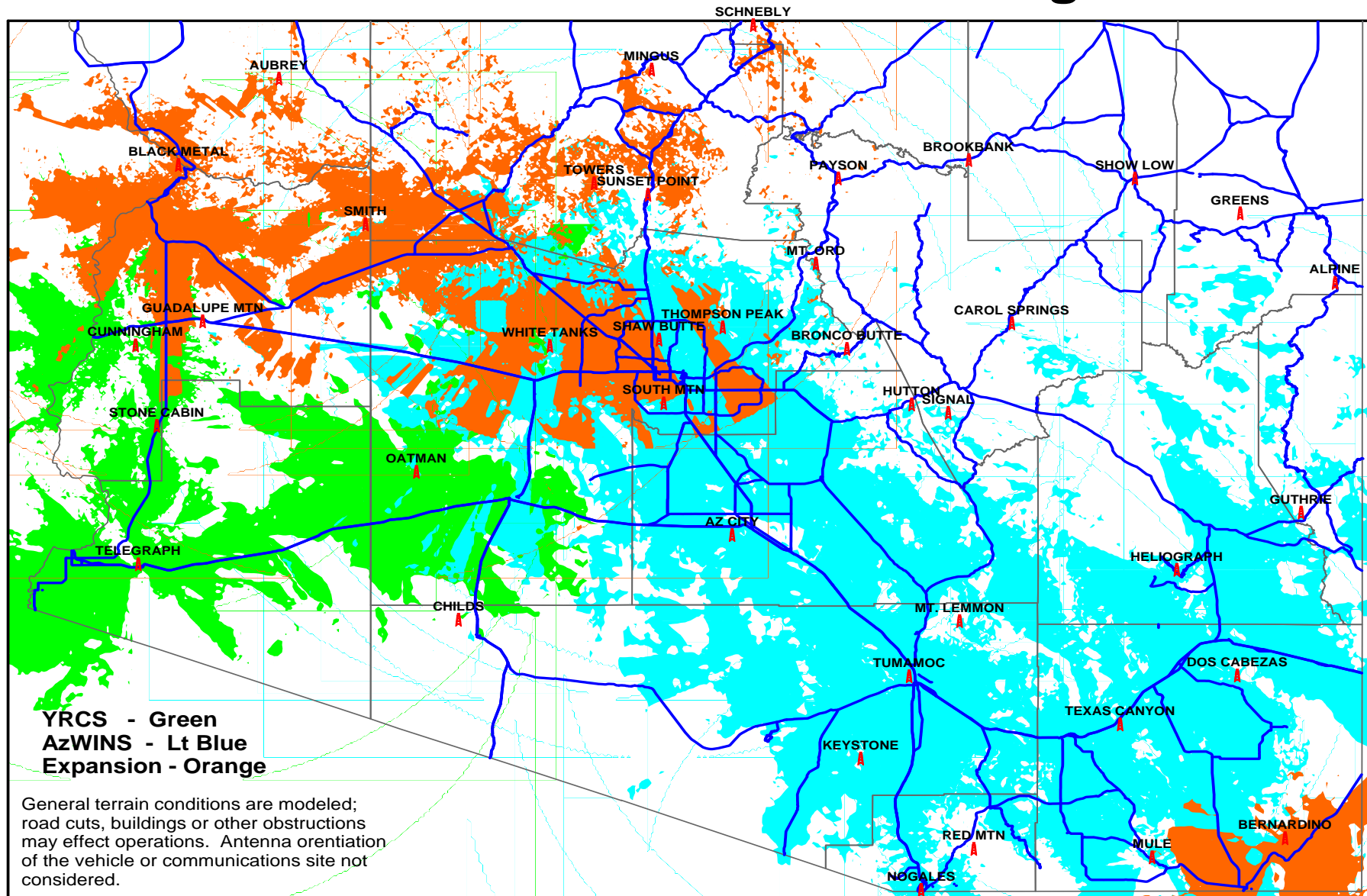
YRCS / AzWINS Radio Coverage



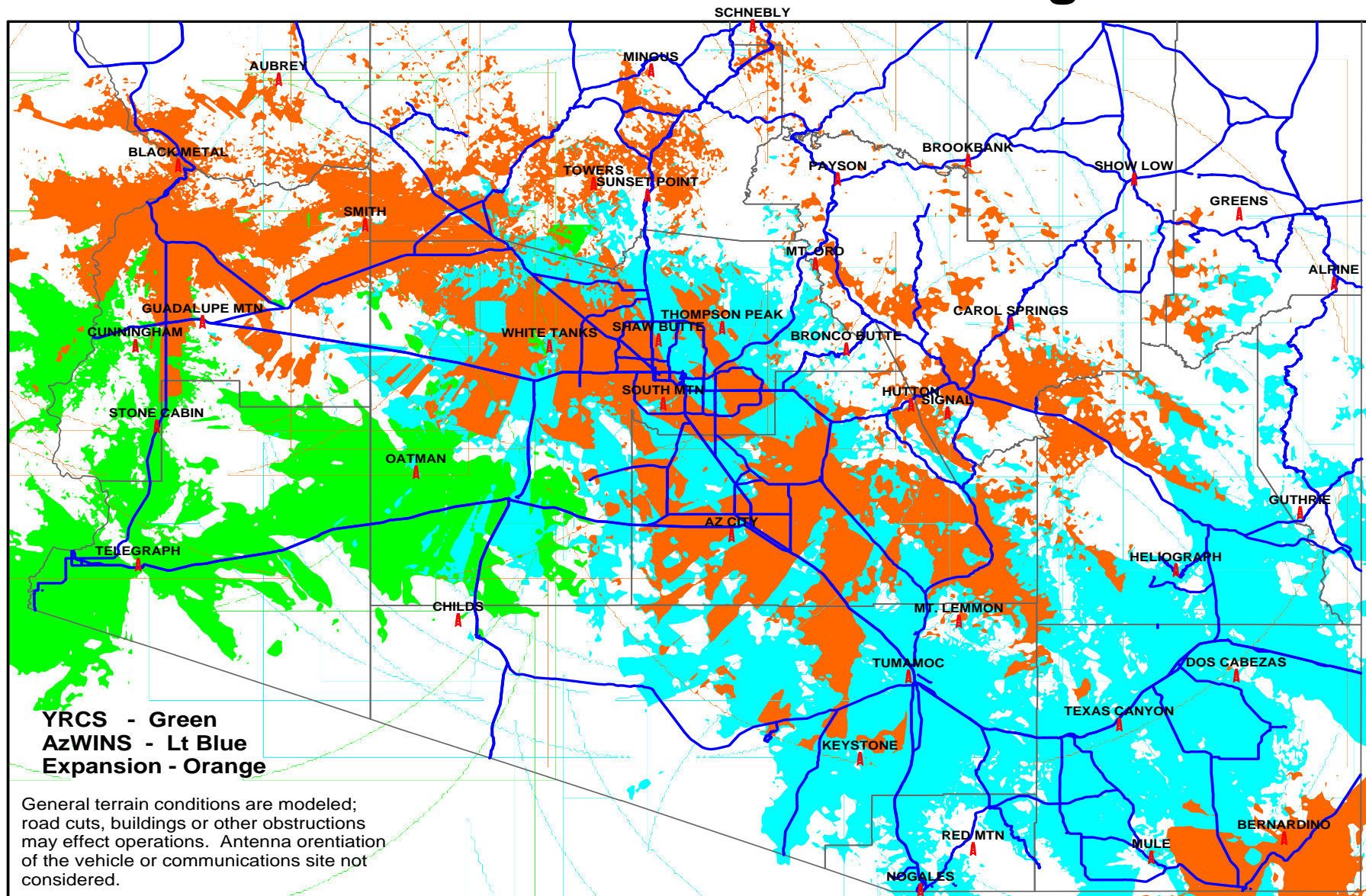
YRCS / AzWINS Radio Coverage



YRCS / AzWINS Radio Coverage



YRCS / AzWINS Radio Coverage





Harris Unity



Motorola APX



AZDOHS

**ARIZONA DEPARTMENT
OF HOMELAND SECURITY**





MILESTONES

- DPS interoperable with Yuma County S.O. and Yuma P.D.
- ADOT operability in Phoenix, Yuma, Tucson and Safford Districts.
- ADOT and DPS interoperable in the Phoenix Area.
- First FCC buildout deadline met.



MILESTONES

- DPS Criminal Investigations can now operate on 700/800, UHF and VHF channels with Advanced Encryption.
- ADOT Enforcement Compliance Division operates multi-band mobiles and portables for improved interoperability.
- DPS motors being issued dual band portables.
- Units on the system:
YRCS 2136, ADOT 1374, DPS 714. Total 4224



QUESTIONS

